

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 March 2005 (10.03.2005)

PCT

(10) International Publication Number
WO 2005/022230 A1

(51) International Patent Classification⁷: **G02B 6/44**, 6/00,
C08L 23/02, 23/08, C08K 3/00, C08L 23/00

(74) Agents: **BOTTERO**, Claudio et al.; Porta Checcacci &
Associati S.p.A., Via Trebbia, 20, I-20135 Milano (IT).

(21) International Application Number:
PCT/EP2003/009728

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 28 August 2003 (28.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (*for all designated States except US*): **PIRELLI**
& C. S.p.A. [IT/IT]; Via Gaetano Negri, 10, I-20123 Mi-
lano (IT).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

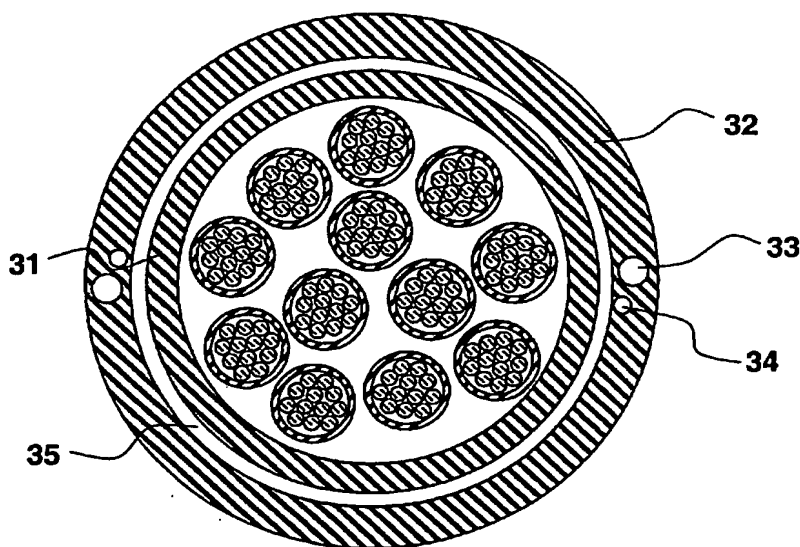
(75) Inventors/Applicants (*for US only*): **PAVAN**, Massimil-
iano [IT/IT]; Pirelli Labs, Viale Sarca 222, I-20126 Milano
(IT). **BRANDI**, Giovanni [IT/IT]; Pirelli Cavi E Sistemi
Telecom S.p.A., Viale Sarca, 222, I-20126 Milano (IT).
MARITANO, Mauro [IT/IT]; Pirelli Labs S.p.A., Viale
Sarca, 222, I-20126 Milano (IT).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ing of each regular issue of the PCT Gazette.*

(54) Title: OPTICAL CABLE AND OPTICAL UNIT COMPRISED THEREIN



(57) Abstract: Optical cable comprising at least one tubular element of polymeric material and at least one transmission element housed within said tubular element, wherein said polymeric material is made from a polymeric composition comprising: (a) at least one olefin polymer; (b) at least one inorganic filler; (c) at least one olefin polymer including at least one functional group, wherein said at least one olefin polymer including at least one functional group (c) is present in the polymeric composition in an amount of from about 3 parts by weight to about 10 parts by weight, preferably from about 5 parts by weight to about 8 parts by weight, with respect to 100 parts by weight of the olefin polymer (a).



WO 2005/022230 A1